Course Description:

During the first semester students will build fluency with basic math facts and add and subtract within 100 to solve word problems using strategic methods. Students will also manipulate numbers to 1000 using knowledge of hundreds, tens, and ones. Lastly, students with demonstrate arrays with repeated addition.

Module	Lesson Title	Objectives
Module 1: Addition Strategies	Addition Properties	• Define addends and sums. • Identify where the addends and sums are in an addition sentence. • Add to 20. • Use different addends to add to 20.
	Count On to Add	• Find the sum of an addition sentence using the counting-on strategy • Add to 20 • Use various addends to add to 20
	Doubles and Near Doubles	• Find the sums of doubles addition facts • Use doubles facts to solve near- doubles addition facts • Use counters and drawings to show doubles and near- doubles facts
	Make a 10	• Define the vocabulary words “addend” and “sum” • Correctly insert dots in a ten frame to represent an addition sentence • Add to 10 using various addends in a ten frame
	Practice Making Ten and Adding to Ten	• Fluently add up to 10 using various addends in a ten frame • Add up to 20 using various addends in two ten frames
Module 2: Subtraction Strategies	Subtraction Properties	• Define the meaning of subtraction. • Solve simple subtraction sentences. • Identify missing parts of a subtraction sentence.

Module	Lesson Title	Objectives
	Count Back to Subtract	• Define the counting-back subtraction strategy. • Solve subtraction sentences using the counting-back strategy.
	Use Doubles to Subtract	• Identify doubles to subtract. • Solve doubles subtraction facts using Unifix cubes and/or drawings.
	Relate Addition and Subtraction	• Define the parts and whole of addition and subtraction sentences. • Identify similarities between addition and subtraction sentences.
	Write Subtraction Sentences	• Identify the parts of a subtraction sentence • Write subtraction sentences to represent pictures
Module 3: Add To (up to 20)	Add To (Up to 20)	• Identify and explain most appropriate addition strategies while solving addition problems • Fluently add within 20 using addition strategies
	Write Addition Sentences	• Identify the parts and whole in an addition sentence • Identify the addends and sum in an addition sentence • Write addition sentences to represent pictures
	Add Three Numbers	• Identify three addends in addition sentences • Identify three addends in a word problem • Look for “friendly numbers” to add three addends • Use “friendly numbers” to add three addends

Module	Lesson Title	Objectives
	Add on a Number Line	• Identify the larger addend of an addition sentence. • Represent the addends of addition sentences on a number line. • Use a number line to find the sum of addition sentences.
	Missing Addends	• Find the missing addend using ten frames • Find the missing addend using a number line • Practice finding a missing addend
Module 4: Take From (up to 20)	Take From (up to 20)	• Identify parts of a subtraction sentence • Identify pictures that represent given subtraction sentences • Create pictures based on subtraction sentences
	Subtract Doubles	• Identify a doubles subtraction fact using doubles addition facts • Recognize subtracting doubles as a helpful subtraction strategy • Practice subtracting doubles
	Missing Numbers	• Identify if the missing number in a subtraction sentence is a part or the whole • Find the missing number in a subtraction sentence using a part-part-whole chart
	Subtract on a Number Line	• Represent the part of a subtraction sentence on a number line • Use a number line to find the difference in a subtraction sentence
	Fact Families	• Relate addition and subtraction sentences • Recognize fact families as number sentences with the same 3 numbers

Module	Lesson Title	Objectives
Module 5: Skip Counting	Counting by 5s to 100	• Skip count to 100 by 5s • Find the missing number(s) in a skip-counting sequence
	Counting by 10s to 100	• Use place value, a hundreds chart to find skip-counting patterns to 100. • Count by 10s using place-value patterns or a hundreds chart. • Use base-ten blocks to skip count by 10
	Count by 100s to 1000	• Use a thousands chart to find skip-counting patterns • Count by 100s to 1,000 using place-value patterns
	Counting by 100s, 10s, and 1s	• Identify the skip-counting patterns for the 1s, 10s, and 100s number sequences • Skip count from any number using a hundreds or thousands chart
	Numbers in Base - Ten Notation	• Use models, words and expanded formats to describe numbers • Break apart numbers into base-ten notation
Module 6: Compare Numbers	Number Structure (Tens and Ones)	• Use different ways to make a number
	Number Structure (Hundreds)	• Make a number using base-ten blocks

Module	Lesson Title	Objectives
	Make Groups of 10s and 1s to Compare	• Use place-value concepts to represent amounts of tens and ones • Compare two-digit numbers
	Make Groups of 100s to Compare 3-Digit Numbers	• Use place-value concepts to represent amounts of hundreds, tens, and ones • Compare three-digit numbers
	Problem-Solving Strategy: Reasoning	• Understand that the three digits of a three-digit number represent amounts of hundreds, tens and ones
Module 7: Place Value to 1,000	Tens and Ones	• Identify patterns in numbers • Create skip-counting number sequences using a hundred chart
	Hundreds	• Identify patterns in three-digit numbers • Use a thousand chart to count by 100s
	Place Value to 1,000	• Identify numbers using standard form and word form
	Read and Write Numbers to 1,000	• Use models and pictures to represent large numbers • Identify numbers using expanded form

Module	Lesson Title	Objectives
	Compare Numbers to 1,000	• Order and compare larger numbers
Module 8: Round Numbers	Round to the Nearest 10 from 0-100	• Round numbers to the nearest 10 • Use a number line to round to the nearest 10
	Rounding to the Nearest 10 from 0-1,000	• Round numbers to the nearest 10 in numbers up to 1,000
	Rounding to the Nearest 100, 1-1,000	• Round numbers to the nearest 10 in numbers up to 1,000
	Round to the Nearest 10, 100, or 1,000	• Round to the nearest 10, 100, or 1,000
	Estimate Sums	• Estimate the sum of an addition sentence • Round the addends of an addition sentence
Module 9: Add Two-Digit Numbers to One-Digit Numbers	Add Tens	• Add tens to practice adding two-digit numbers
	Regroup Ones as Tens	• Make tens from ones to add

Module	Lesson Title	Objectives
	Add to a Two-Digit Number Using a Number Line	• Use the count-on strategy to add to a two-digit number
	Add a One-Digit Number to a Two-Digit Number	• Use a ten frame to add a two-digit number to a one-digit number.
	Problem-Solving Strategy: Write an Addition Sentence	• Write and solve a two-digit addition sentence from a picture • Choose an addition strategy to solve
Module 10: Add Two-Digit Numbers	Add a One-Digit Number to a Two-Digit Number with Regrouping	• Find the sum with regrouping • Use place-value charts to explain addition strategies
	Rewrite Two-Digit Addition	• Explain why addition strategies work, using place value and the properties of operations.
	Two-Digit Addition Without Regrouping	• Add two-digit numbers without regrouping
	Two-Digit Addition With Regrouping	• Add two-digit numbers with regrouping
	Input/Output Tables (Add)	• Use an addition strategy to add using an input/output box
Module 11:	Two-Digit Fact Families	• Use fact families to add numbers

Module	Lesson Title	Objectives
Two-Digit Mental Math Addition Strategies	Mentally Add Two-Digit Numbers	• Use mental math to solve two-digit addition
	Add in Parts	• Break apart numbers to add two-digit addends
	Apply the Add-in-Parts Strategy	• Break apart numbers to add two-digit addition
	The Next Ten	• Use the next-ten strategy to add bigger numbers mentally
Module 12: Add Larger Numbers	Add on a Hundred Chart	• Add larger numbers using a hundred chart
	Add Three Numbers	• Add up to three two-digit numbers
	Add Four Numbers	• Add up to four two-digit numbers
	Ways to Make a Number	• Create multiple addition sentences with different addends adding to the same sum.
	Find the Number	• Find a missing addend using a number line

Module	Lesson Title	Objectives
Module 13: Subtract 2-digit numbers	Subtract Tens	• Subtract tens to subtract two-digit numbers
	Subtract Tens and Ones	• Subtract tens and ones using a place value chart
	Subtract from a Two-Digit Number Using a Number Line	• Use the count-back strategy to subtract on a number line
	Subtract a One-Digit Number from a Two-Digit Number	• Use ten frames to subtract a one-digit number from a two-digit number
	Problem-Solving Strategy: Write a Subtraction Sentence	• Write and solve a two-digit subtraction sentence from a picture
Module 14: Subtract Two-Digit Numbers	Subtract a One-Digit Number from a Two-Digit Number with Regrouping	• Use a place-value chart to regroup • Subtract a one-digit number from a two-digit number
	Rewrite Two-Digit Subtraction	• Rewrite numbers to subtract
	Two-Digit Subtraction Without Regrouping	• Subtract two-digit numbers without regrouping

Module	Lesson Title	Objectives
	Two-Digit Subtraction with Regrouping	• Subtract two-digit numbers with regrouping
	Input/Output Tables (Subtract)	• Use a subtraction strategy to add using an input/output box
Module 15: Two-Digit Mental Math Subtraction Strategies	Two-Digit Fact Families	• Use fact families to subtract numbers
	Mentally Subtract Two-Digit Numbers	• Use mental math to solve two-digit subtraction
	Take Apart Tens to Subtract	• Take apart numbers to subtract two-digit numbers.
	Apply the Take-Apart Strategy	• Use the take-apart strategy to subtract two-digit numbers mentally
	Make Ten to Subtract	• Use the make-ten strategy to subtract two-digit numbers
Module 16: Subtract Large Numbers	Subtract on a Hundred Chart	• Subtract larger numbers using a hundred chart.
	Subtract from a Three-Digit Number	• Subtract a number from a three-digit number.

Module	Lesson Title	Objectives
	Subtract Three-Digit Numbers	• Subtract larger numbers by regrouping.
	Write a Subtraction Equation	• Write a subtraction equation to fit a story problem.
	Find the Numbers	• Complete a subtraction sentence by inserting the correct digits to make the equation true.
Module 17: Customary and Metric Lengths	Non-Standard Units of Measurement	• Explain estimation of length with and without appropriate tools in non-standard units.
	Inches, Feet, and Yards	• Measure the length of objects using inches, feet, and yards.
	Centimeters and Meters	• Measure the length of objects using centimeters and meters.
	Relate Inches, Feet, and Yards	• Understand that a standard unit is always the same length. • Compare inches, feet, and yards.
	Relate Centimeters and Meters	• Understand that a metric unit is always the same length. • Compare centimeters and meters.
Module 18: Using Customary and Metric Tools	Estimate Using Inches, Feet, and Yards	• Estimate lengths using inches, feet, and yards.

Module	Lesson Title	Objectives
	Estimate Using Centimeters and Meters	• Estimate lengths using centimeters and meters.
	Compare Customary Lengths	• Measure to determine how much longer one object is than another. • Compare the lengths of two objects using subtraction.
	Compare Metric Lengths	• Measure objects to compare their length. • Compare the metric lengths of two objects using subtraction.
	Select and Use Customary and/or Metric Tools	• Measure the length of an object by selecting and using correct tools such as rulers, yardsticks, meter sticks, and measuring tapes.